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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,074	12/18/2000	Kai Leung Fan	USP1372H-ONC	4583

7590 09/10/2004  
Raymond Y.C. Chan  
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Arcadia, CA 91007

EXAMINER
DUGGINS, ALICIA M

ART UNIT	PAPER NUMBER
2616	

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/740,074

**Applicant(s)**

FAN, KAI LEUNG

**Examiner**

Alicia M Duggins

**Art Unit**

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☒ Claim(s) 7-9 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 December 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

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## DETAILED ACTION

### *Specification*

The disclosure is objected to because of the following informalities: on p.6 I.12 of the specification applicant uses the word **wobbie** and examiner believes applicant intended to use the word **wobble** instead.

Appropriate correction is required.

### *Claim Objections*

Claims 7-9 are objected to because of the following informalities: Examiner believes applicant intended to use the word **wobble** rather than **wobbie**. Appropriate correction is required.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an

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application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishimura et al. (US6424615).

Regarding claims 1-3, Ishimura shows an address coding method for an optical disc comprising the steps of:

- Providing a time address containing a minute field, second field and a frame field wherein 75 frames are presented and the second, minute and frame fields contain a first and second digit is shown in fig.4 (col.9 ll.5-11, col.6 ll.31-35))
- Employing 24 bits to represent the time address wherein four bits are used for each of the first and second digits of the second, minute and frame fields is shown in figs.2 and 3 where the second, minute and frame fields are shown as having 8 bits each, four for the first digit and four for the second digit.
- Representing the first digit of the minute field in hexadecimal format and the second digit of the minute field and the first and second digits of the second and frame fields by a binary coded decimal (BCD) format as also discussed in claim 2 is shown in fig.5 (col.10 ll.23-53, col.6 ll. 32-35)
- claims 2 and 3, discuss the first digit of the minute field being between 0 and 9, and when the first digit of the minute field is between 11 and 15, it is represented by A-F (col.10 ll.27-34)

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishimura (US6424615) in view of Yonemitsu (US5617384).

Regarding claims 4-6, Ishimura, shows an AV-RW disc (col.8 ll.58-59) that has a data storing capacity of 159 minutes 59 seconds and 74 frames (col.5 ll.20-21). However what is not shown by Ishimura and is shown by Yonemitsu is an optical disk with a diameter of less than 140mm (col. 1.53) that utilizes a MPEG 1 format (col.4 l.65-col.5 l.10). . It would have been obvious to one of ordinary skill in the art to utilize a DVD with a MPEG1 format to allow for the recording of various types of data (col.5 ll.7-9).

Regarding claims 10-12, Yonemitsu shows the step of multiplexing with user data in fig.1 (col.6 ll.33-43) prior to EFM signal generation via EFM modulation (140) (col.7 ll.63-67)

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Regarding claims 16-18, Yonemitsu shows the step of multiplexing a 24 bit time coding stream with digital visual data and error correction codes prior to being converted into an EFM signal is shown in fig.1 where the time coding stream is multiplexed with digital visual data such as sub code data which is multiplexed via the sector header adding circuit (128) and error correction codes via the error correcting circuit (132) (col.6 l.59 – col.7 l.26)

Claims 7-9 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishimura (US6424615) in view of Horikiri (US5615185).

Regarding claims 7-9, although Ishimura teaches an address coding method, he does not teach the step of incorporating the time address in a wobble signal by using bi-phase FM modulation for groove generation, which is taught by Horikiri in figs. 1 and 2 (col.4 ll.37-44). It would have been obvious to one of ordinary skill in the art to include the step of incorporating a time address in a wobble signal in address coding to have a record density twice as large as that of a conventional optical disk and to make it easier to perform a search operation (col.3 ll.40-45).

Regarding claim 13-15, Horikiri shows the step of modulating an optical disc into a 22.05 KHz wobble signal (col.4 ll.37-44)

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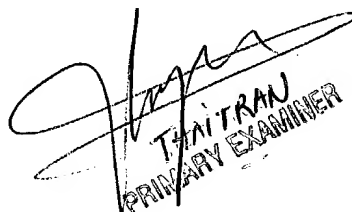
**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M Duggins whose telephone number is (703) 305-5621. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran (Acting SPE) can be reached on (703) 305-4725. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AMD  
8/31/04

  
THAI TRAN  
PRIMARY EXAMINER